|                                       |          | Exploring the Ex                | treme   |
|---------------------------------------|----------|---------------------------------|---|
|                                       |          | 2010 Scienc                     |   |
|                                       |          | Academic Content S              | standards                                       |
| Ohio Science                          |          |                                 |   |
| Grade 1                               |          |                                 |   |
| Activity/Lesson                       | State    | Standards                       |   |
|                                       |          |                                 | The position of an object can be described      |
| Finding the Center of                 |          |                                 | by locating it relative to another object or to |
| Gravity Using Rulers                  | ОН       | SCI.1.PS.1.2.a                  | the object's surroundings.                      |
|                                       |          |                                 |   |
| Finding the Center of                 |          |                                 | An object is in motion when its position is     |
| Gravity Using Rulers                  | ОН       | SCI.1.PS.1.2.b                  |   |
|                                       |          |                                 | The motion of an object can be affected by      |
|                                       |          |                                 | pushing or pulling. A push or pull is a force   |
| Finding the Center of                 |          |                                 | that can make an object move faster, slower     |
| Gravity Using Rulers                  | ОН       | SCI.1.PS.1.2.c                  | or go in a different direction.                 |
|                                       |          | Frederica Alex For              | <u></u>   |
|                                       |          | Exploring the Ex<br>2010 Scienc |   |
|                                       |          | Academic Content S              |   |
| Ohio Science                          |          | Academic Content S              | otandards                                       |
| Grade 2                               |          |                                 |   |
| Activity/Lesson                       | State    | Standards                       |   |
| Addivity/L033011                      | Otato    | Otaridards                      |   |
| Finding the Center of                 |          |                                 | Motion can increase, change direction or        |
| Gravity Using Rulers                  |          | SCI.2.PS.1.1.a                  | stop depending on the force applied.            |
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|                                       |          |                                 |   |
|                                       |          |                                 |   |
|                                       |          |                                 |   |
|                                       |          | Exploring the Ex                | treme   |
|                                       |          | 2010 Scienc                     |   |
|                                       |          | Academic Content S              | tandards  |
| Ohio Science                          |          |                                 |   |
| Grades 5-8                            |          |                                 |   |
| Activity/Lesson                       | State    | Standards                       |   |
|                                       |          |                                 | Use appropriate mathematics, tools and          |
| Jet Propulsion                        | ОН       | SCI.5-8.3                       | techniques to gather data and information;      |
|                                       | <b>.</b> |                                 | Develop descriptions, models, explanations      |
| Jet Propulsion                        | ОН       | SCI.5-8.5                       | and predictions;                                |
|                                       |          |                                 | Communicate scientific procedures and           |
| Jet Propulsion                        | ОН       | SCI.5-8.8                       | explanations.                                   |
|                                       |          | 201 - 22                        | Use appropriate mathematics, tools and          |
| Vectoring                             | ОН       | SCI.5-8.3                       | techniques to gather data and information;      |
| Marting                               |          | 001 5 0 5                       | Develop descriptions, models, explanations      |
| Vectoring                             | ОН       | SCI.5-8.5                       | and predictions;                                |
| Va atavira -                          |          | 001507                          | Recognize and analyze alternative               |
| Vectoring                             | ОН       | SCI.5-8.7                       | explanations and predications; and              |
| Mantanius                             |          | 001.5.0.0                       | Communicate scientific procedures and           |
| Vectoring                             | ОН       | SCI.5-8.8                       | explanations.                                   |
| Center of Gravity,                    |          | 001505                          | Develop descriptions, models, explanations      |
| Pitch, Yaw                            | ОН       | SCI.5-8.5                       | and predictions;                                |

|                 |    |           | Develop descriptions, models, explanations |
|-----------------|----|-----------|--|
| Fuel Efficiency | OH | SCI.5-8.5 | and predictions;                           |